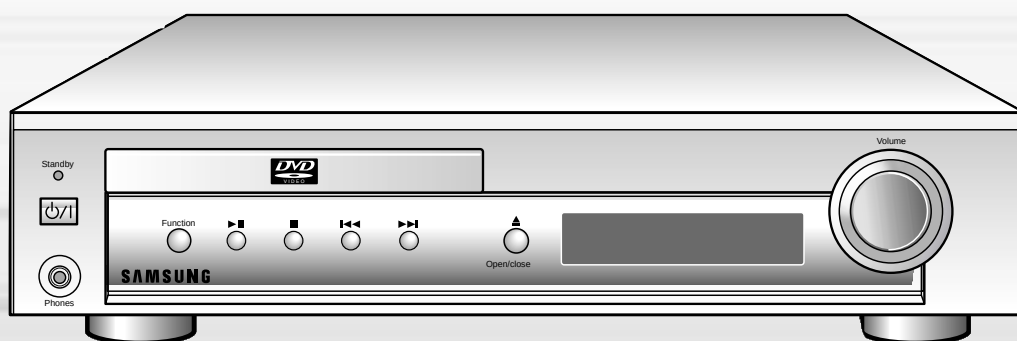


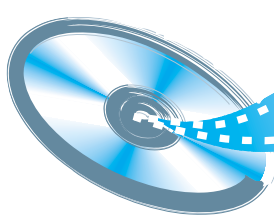


DIGITAL HOME THEATER SYSTEM

HT-DL100

Instruction Manual





Safety Warnings

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

**CAUTION-INVISIBLE LASER RADIATION WHEN OPEN
AND INTERLOCKS DEFEATED, AVOID
EXPOSURE TO BEAM.**

	CAUTION RISK OF ELECTRIC SHOCK. DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.

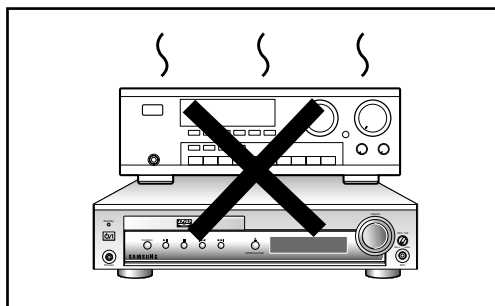
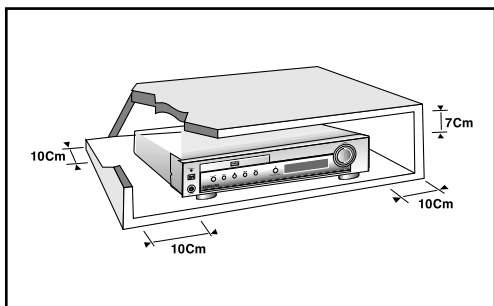


This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

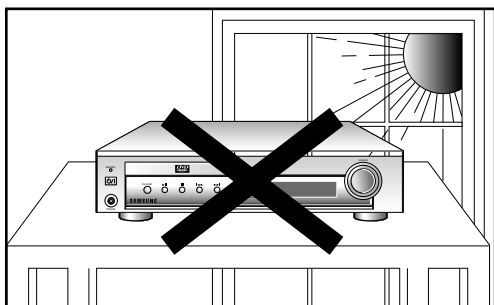
CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Precautions



Setting up

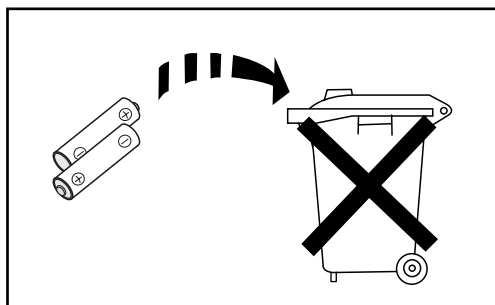
Ensure that the mains supply in your house complies with that indicated on the identification sticker located at the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (7~10cm). Make sure the ventilation slots are not covered. Do not stack other, or heavy devices on top over the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player ensure the disc tray is empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electricity supply. In order to separate the player completely from the mains, it has to be disconnected by unplugging the main plug, especially when left unused for a long period of time.



Caution

Do not expose the unit to direct sun radiation or other heat sources.

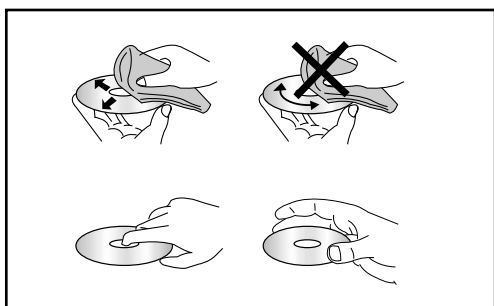
This could lead to overheating and malfunction of the unit.



Battery

The battery used in this product contains the chemicals that are harmful to the environment.

Do not dispose of batteries in the general household waste. It is recommended that the replacement of the battery should be done by technician.



Disc

Be careful handle your discs with care. Hold a disc with finger on the border or hole. Always place disc with the label facing upward (in case of a single side disc). Always use a soft cloth to clean disc if necessary, wipe from the centre to the border. Always put disc back into their cases after playing and store in vertical position. Always place the disc properly into the tray using the proper guide area. Never use record cleaning sprays, benzene, static electricity liquids or any other solvent, if the disc surface is dirty. Wipe gently with a soft damp (water only) cloth, never wipe the disc in a circular motion, since circular scratches are likely to occur and could cause noise during playback.



DVD (Digital Versatile Disc) offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie theater or concert hall.



DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

The Region Number for this player is given on the rear panel of the player.

(Your DVD player with the same regional code will only play DVDs that are labeled with identical region codes.)

Manufactured under license from Dolby Laboratories.

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

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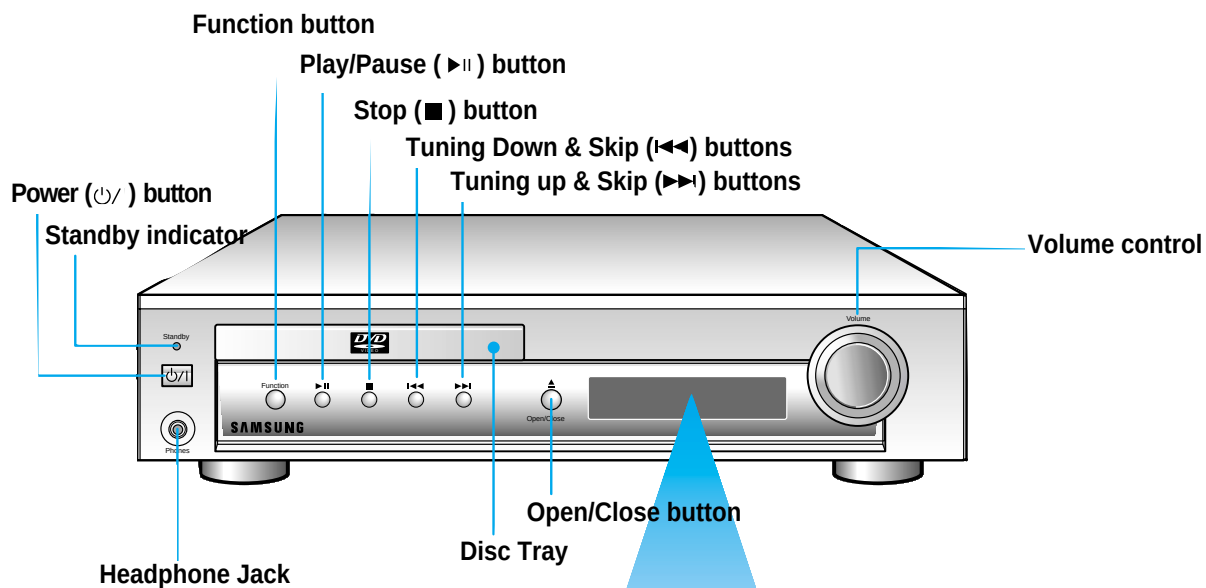
Manufactured under license from Digital Theater System, Inc, US Pat. 5,451,942 and other world-wide patents issued and pending, "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc. Copyright 1996 Digital Theater Systems, Inc. All Rights Reserved.



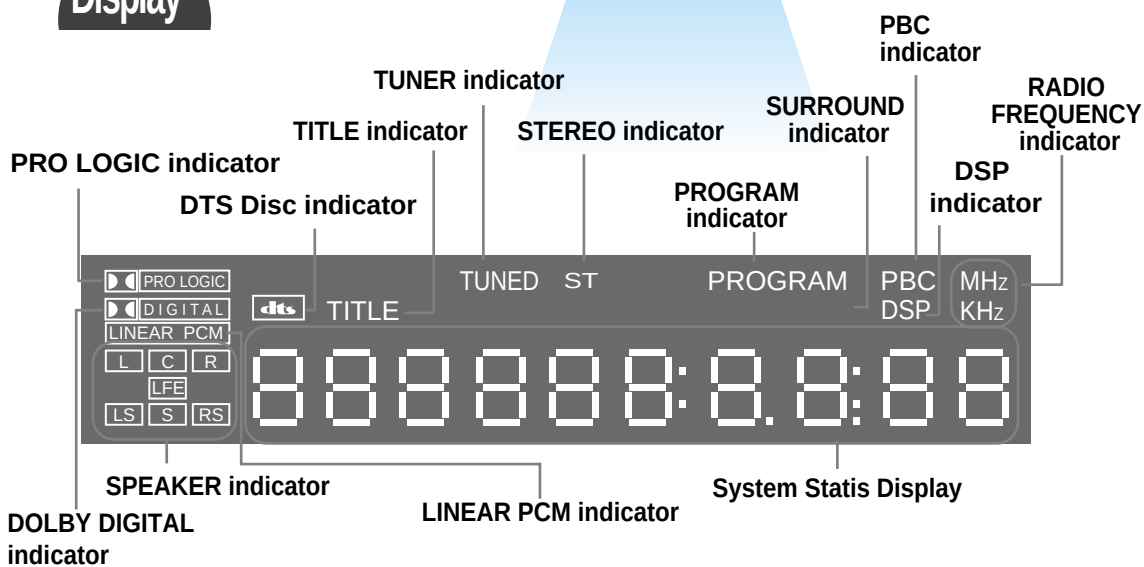
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Description

Front Panel



Display



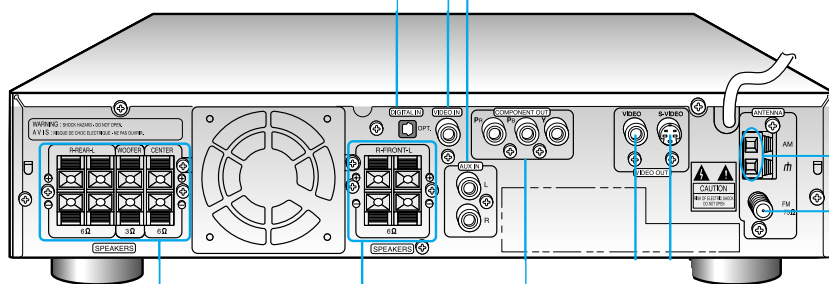
Rear Panel

External Digital Component Input Connectors

Use these for connections to external equipment capable of digital output.

External Video Component Input Connector

External Audio Component Input Connector



5.1 Channel Speaker Output Terminals

COMPONENT VIDEO OUTPUT jacks

Connect a TV with the component video input jacks to these jacks.

Video Output Connector

Connect the TV's video input jacks (VIDEO IN) to the VIDEO OUT connector.

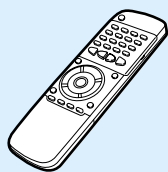
S-Video Output Connector

If the TV is equipped with an S-Video input connector (S-VIDEO IN), connect it to the player's S-Video output jack.

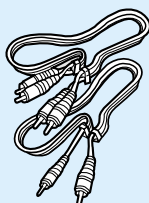
AM Antenna Connector

FM Antenna Connector

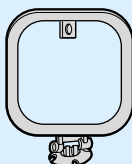
Accessories



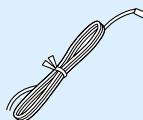
Remote Control



Video/Audio Cable



AM Antenna

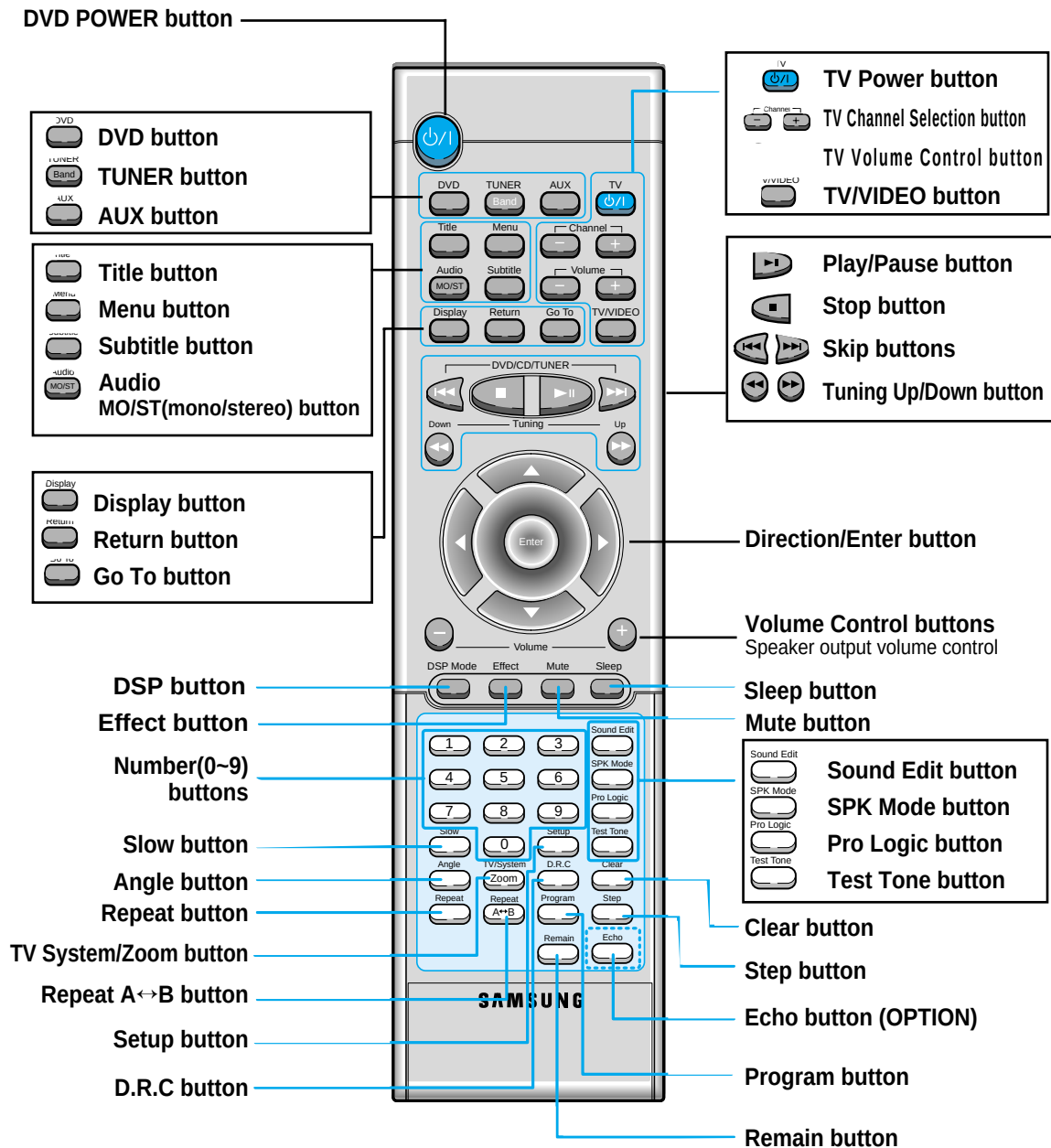


FM Antenna

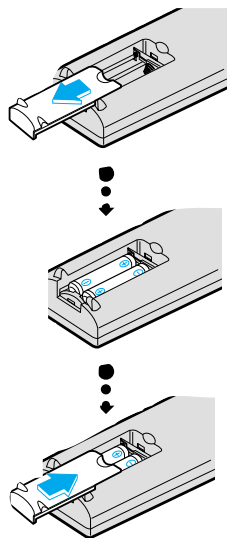


User's Manual

Remote Control Unit



Insert Remote Batteries



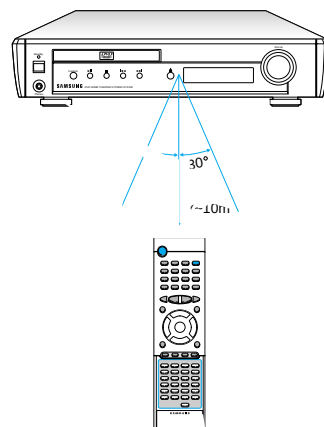
1 Remove the battery cover on the back of the remote by pressing down and sliding the cover in the direction of the arrow.

2 Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and -).

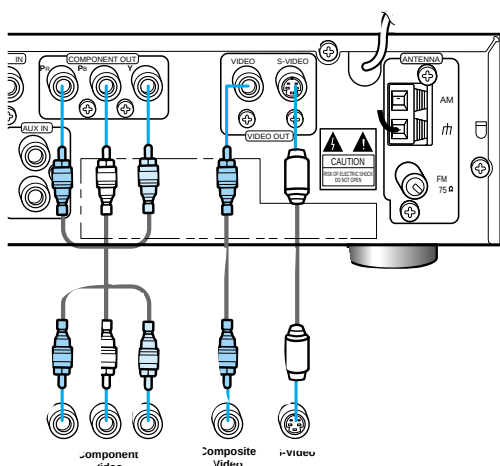
3 Replace the battery cover.

Range of Operation of the Remote Control

The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.



Connect Video to TV



Composite Video (Good Quality)

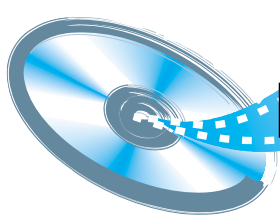
Connect the supplied video cable from the VIDEO OUT jack on the back panel of the system to the VIDEO IN jack on your television.

S-Video (Better Quality)

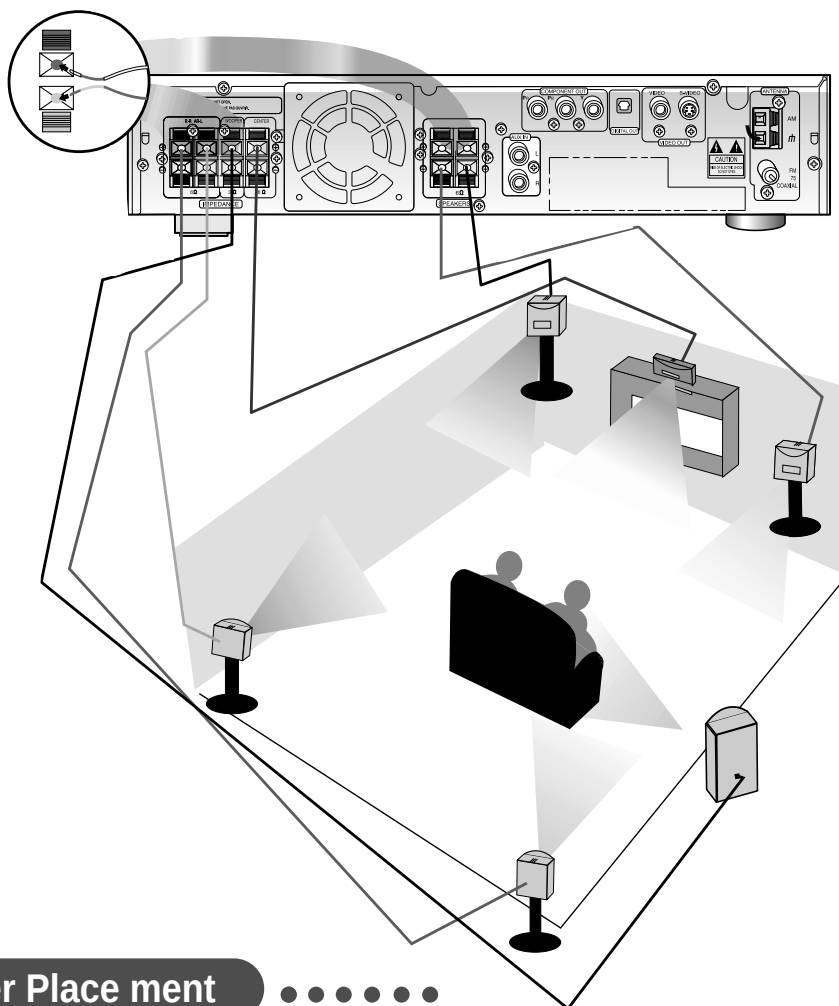
If your television is equipped with an S-Video input, connect an S-Video cable (not supplied) from the S-VIDEO OUT jack on the back panel of the system to the S-VIDEO IN jack on your television.

Component Video (Best Quality)

If your television is equipped with Component Video inputs, connect a component video cable (not supplied) from the Pr, Pb and Y jacks on the back panel of the system to the corresponding jacks on your television.



Place and Connect Speakers



Speaker Placement

Arrange the 6 speakers as shown in your listening area.

- **Front Speakers** : Set the front speakers so that they are aligned at ear level and at a horizontal angle of 45 degrees to the primary listening area.
- **Rear Speakers** : Set the surround speakers further back, parallel to the walls, at 2 to 3 feet above the ear level of the primary listening area. If the space behind the listening area is limited (i.e., close to the wall), place the rear speakers facing each other on either side.
- **Center Speaker** : The center speaker should be positioned with its top surface flush with the front speakers. However, you may place the speaker either on top of or next to your TV set.
- **Subwoofer** : Place the subwoofer at any convenient location within the vicinity of the listening area.

Speaker Connections

1. Make sure the power is turned off before connecting the speakers to prevent possible damage to the speakers.
2. Connect each red and black speaker wire to the system's back panel as shown, being careful to connect each speaker to its correctly labeled output.
3. To insert each color-coded wire, press down on the red and black thumb levers and then release them to lock the wires in place.

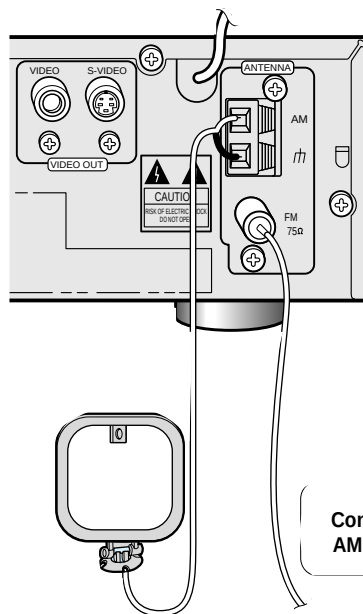
Connect Antenna

AM Loop Antenna

1. Complete assembly of the supplied AM loop antenna by rotating the base and snapping it into place.
2. Connect the two wires from the AM loop antenna to the AM ANTENNA connector on the back panel. Press down on the thumb lever to insert each wire, and then release to lock the wires in place.

FM Antenna

Connect the supplied FM antenna to the "FM 75Ω COAXIAL" connector on the back panel. If noise or interference occurs, use an external antenna with a 75Ω coaxial cable (not supplied).

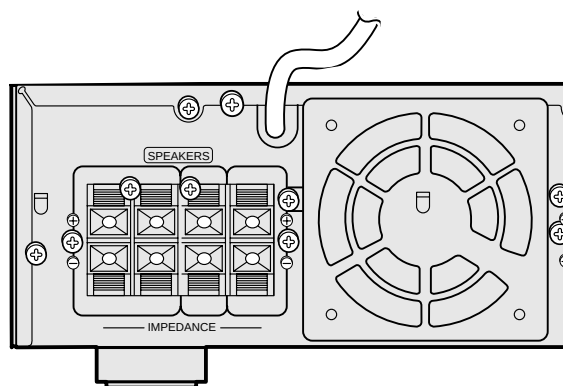


Connecting your System to the Power Supply

The main lead must be plugged into an appropriate socket.

Before plugging your system into a main socket, you must check the voltage setting (OPTIONAL). If the voltage of the socket does not correspond to the setting on the rear of the unit, you may seriously damage your system.

1. Check the position of the voltage selector on the rear of the system (OPTIONAL).
2. Plug the main lead (marked **AC Cord** on the rear of the system) into an appropriate socket.
3. Press the **On/Standby** button to switch your DVD Player system on.

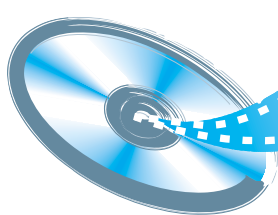




Use these connections if necessary.



Press the **Function** button and select either DIGITAL IN or ANALOG IN.



Before Using the DVD Player

Your DVD player is capable of playing DVD, VCD, and CD discs.

User instructions may vary depending on the type of disc. Read the instructions carefully before use.

1

Preparations
before
use

Turn on the power to your DVD player and TV.



2

Select a video mode by pressing the TV/VIDEO button.



3

Press the DVD button to select the DVD input function.



⚠  The word **INVALID** appears on screen!

If this message appears on the TV screen while buttons are being operate, the operation is not possible with that particular disc.

⚠ If your TV model is not SAMSUNG, refer to "Remote Control Unit Setup" on page 26.

TV System Selection

V System

Zoom

Press the TV System button while in stop mode.

⚠ Each time the TV System button is pressed, "NTSC, PAL, SECAM(Optional)" are selected in this order.

※ Different countries use different types of TV broadcast systems, video, audio and channel systems.

Example : The player cannot playback PAL-encoded DVD with NTSC-TV.

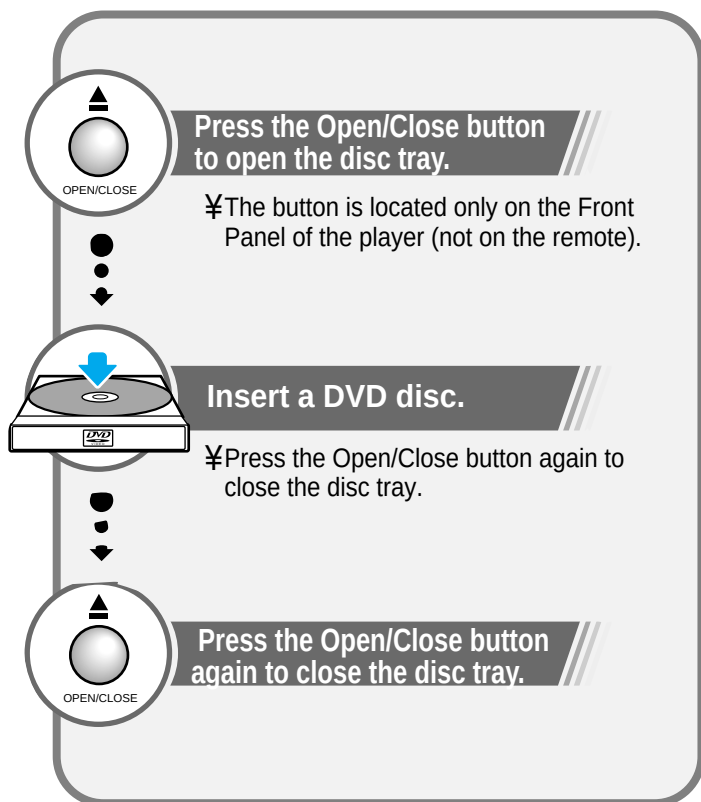
CD-R/RW playback compatibility

⚠ Your DVD player can also play CD-R and CD-RW discs recorded in digital audio format. When recording your own CD-R or CD-RW discs, make sure that the recording session is properly terminated, or they will not be playable. (Depending on disc properties and recording quality, some CD-R/RW may not be playable.)

⚠ CD-RW has a lower reflection rate than CD-R media and consequently it will take a longer to read CD-R discs.

⚠ CD-RW discs recorded at high speed tend to be difficult for the DVD player to read. If the recording speed for the CD-RW disc is not predetermined, write it at low speed.

DVD Playback



Playback starts automatically.

Pausing Playback



Press the Play/Pause (▶II) button during playback.

✕To resume, press the Play/Pause (▶II) button again.



Depending on the disc, the initial disc information screen may look disc to disc.

Stopping Playback



Press the Stop (■) button during playback.

✕During playback, when the Stop (■) button is pressed, the position is stored in the memory, and ▶■ PRESTOP is shown on the display.

When the Play/Pause (▶II) button or Return button is pressed subsequently, playback resumes from the position at which it was stopped.

✕If the Stop (■) button is pressed a second time, the resume play' memory function is canceled, and ■ STOP is shown on the display. When the Play/Pause (▶II) button is pressed, playback starts from the beginning.

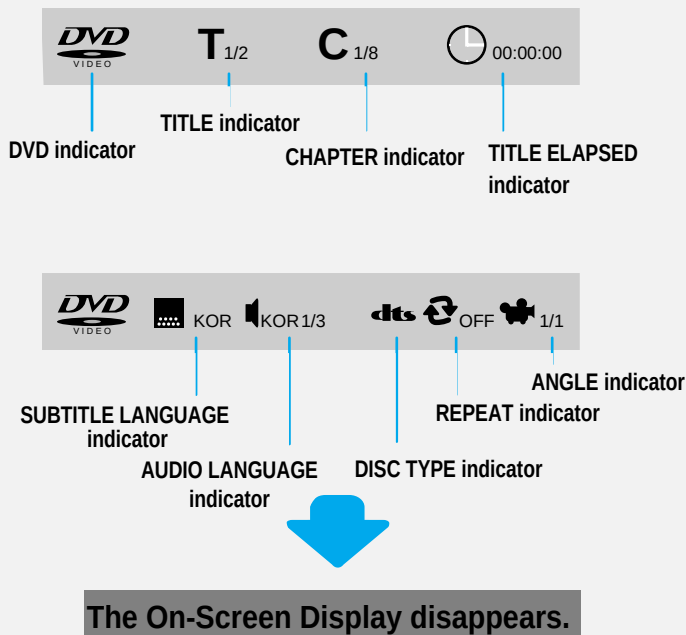
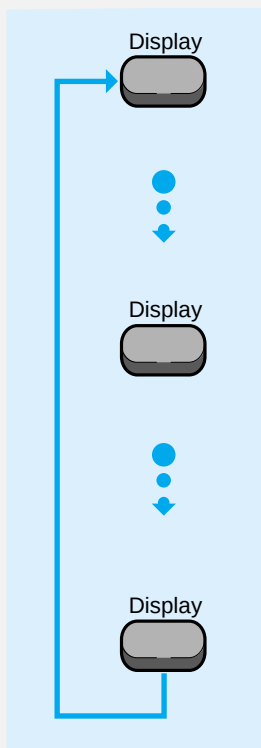
Using the On-Screen Display

Press the Display button on the remote.



Display

DVD



What is a Title?

A movie contained in a DVD disc.

What is a Chapter?

Each Title on a DVD disc is divided into several smaller sections called "chapters".

Turning the sound off temporarily?

Mute

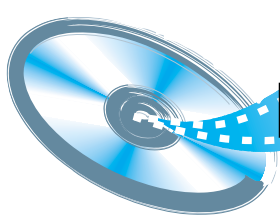


Press the Mute button during playback.

✚ This operation may be useful when you need to greet the guests or answer the telephone.

Note

If the player is left for more than 5 minutes in pause mode, it will stop.

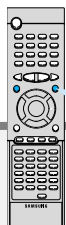


Forward/Reverse Searching

During playback, you can search quickly through a chapter or track for a specific scene or tune.

High-Speed Playback

Press the ◀◀ and ▶▶ button.



DVD VCD CD

Each time the ◀◀ button is pressed

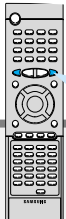


Each time the ▶▶ button is pressed



Skipping through a Chapter

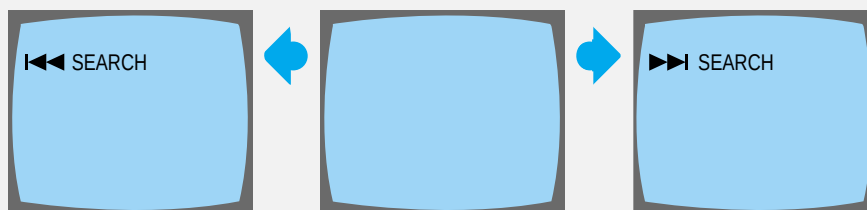
Press the ◀◀ and ▶▶ button.



DVD VCD CD

✚ Each time the button is pressed during playback, it moves to the next or previous chapter and plays it.

✚ However, you cannot skip forward or backward through consecutive the chapters.



VCD CD

Playing Frame by Frame

Step



Press the Step button.

✚ The picture moves forward one frame each time the button is pressed.

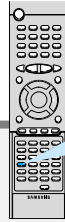
Note

No sound is heard during high-speed playback, slow playback, and step motion.

Slow Playback/Checking the Remaining Time

Playing Slowly

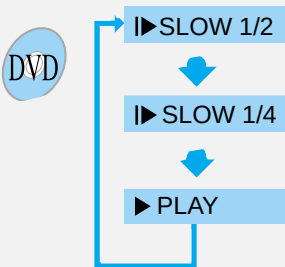
Press the **Slow** button.



Slow

DVD VCD

Each time the **Slow** button is pressed



VCD

The slow playback speed changes and the selections (1/2X, 1/4X, 1/8X, 1/16X and normal play) are repeated.

Note

When playing a VCD or CD, the reverse slow playback will not work.

Checking the Remaining Time

Press the **Remain** button.

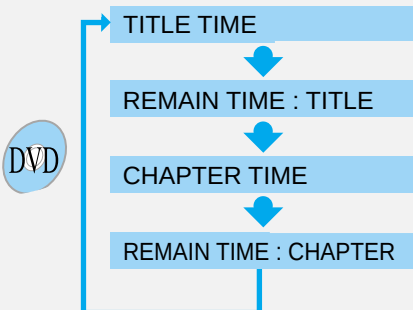
⚠ For checking check the total time and the remaining time of a title or chapter being played.



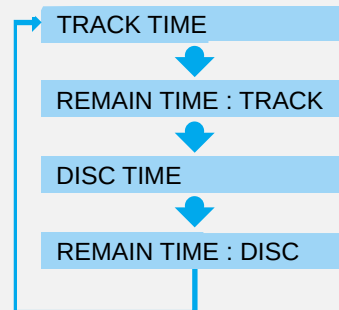
Remain

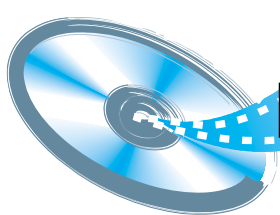
DVD VCD CD

Each time the **Remain** button is pressed



VCD CD



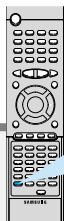


Repeat Playback

Repeat playback allows you to repeat a chapter, title, or track.

Playing Repeatedly

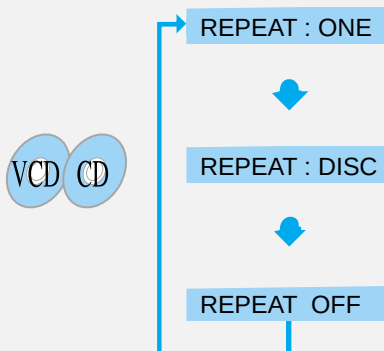
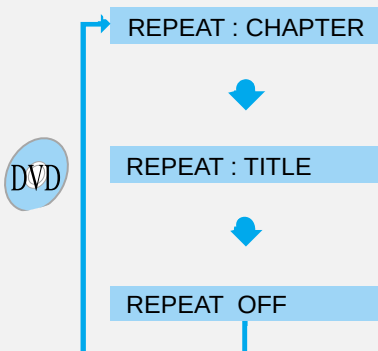
Press the Repeat button.



Repeat

DVD VCD CD

Each time the Repeat button is pressed



Note

Repeat playback operation is not possible with version 2.0 VCD discs if PBC is turned on. To operate this feature, press the MENU button, and then select "PBC OFF".

A↔B Repeat Playback

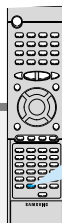
1 Press the **Repeat A↔B** button at the beginning (A) of the segment you want to review.

2 Press the **Repeat A↔B** button again at the end (B) of the segment you want to review.

¥The segment will begin repeating.

To return to normal playback

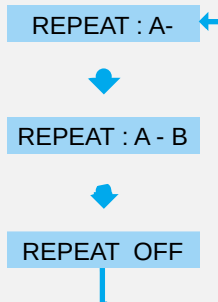
Press the Repeat A↔B button again.

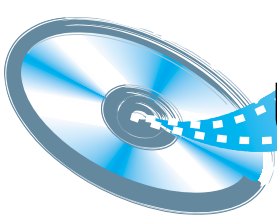


Repeat

A↔B

DVD VCD CD

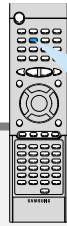




Using Disc Menu/Title

To Select the Disc Menu

You can use the menus for the audio language, subtitle language, profile, etc. DVD menu contents differ from disc to disc.



Menu

DVD

1

Press the **Menu** button during playback.

2

Use the **Up/Down** (▲ / ▼) or **Left/Right** (◀ / ▶) button to access the different features.

3

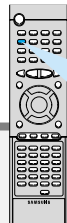
Press the **Enter** button.

⌘ The Menu Screen appears.

⌘ The selected item will play.

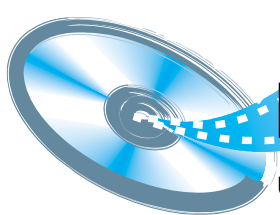
Using the Title Menu

For DVDs containing multiple titles, you can view the title of each movie. Depending on the disc, this function may either not work at all, or may work differently.



Title

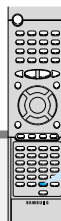
VCD



Program Playback

Use this function with video and music CDs to play the tracks in a particular order.

To Program Tracks in a particular order



Program

DVD

1

Press the **Program** button.

2

Press the **Enter** button then use the Number buttons to select the desired title.

3

Press the **Enter** button, then use the Number buttons to select the desired chapter.

✂ You can use also just the Left/Right (◀/▶/▲/▼) button.

✂ You can use also just the Left/Right (◀/▶/▲/▼) button.

◆ PROGRAM MENU SELECT : ENTER	
TITLE CHAPT	TITLE CHAPT
1 -- --	6 -- --
2 -- --	7 -- --
3 -- --	8 -- --
4 -- --	9 -- --
5 -- --	10 -- --
PREVIOUS ↑	NEXT ↓
PLAY : ▶	FINISH : PROGRAM

◆ PROGRAM MENU SELECT : ENTER	
TITLE CHAPT	TITLE CHAPT
1 -1 --	6 -- --
2 -- --	7 -- --
3 -- --	8 -- --
4 -- --	9 -- --
5 -- --	10 -- --
PREVIOUS ↑	NEXT ↓
PLAY : ▶	FINISH : PROGRAM

◆ PROGRAM MENU SELECT : ENTER	
TITLE CHAPT	TITLE CHAPT
1 1 -2	6 -- --
2 -- --	7 -- --
3 -- --	8 -- --
4 -- --	9 -- --
5 -- --	10 -- --
PREVIOUS ↑	NEXT ↓
PLAY : ▶	FINISH : PROGRAM

4

Press the **Enter** button.

5

At this time, you can continue programming if you want to.

✂ The selected track number is programming and the cursor moves to the next number.

✂ When programming more than 10 tracks, select EXT ↓ and then press the **Enter** button. The program selection screen where you can program up to 10 additional tracks appears.

◆ PROGRAM MENU SELECT : ENTER	
TITLE CHAPT	TITLE CHAPT
1 1 2	6 -- --
2 -- --	7 -- --
3 -- --	8 -- --
4 -- --	9 -- --
5 -- --	10 -- --
PREVIOUS ↑	NEXT ↓
PLAY : ▶	FINISH : PROGRAM

◆ PROGRAM MENU SELECT : ENTER	
TITLE CHAPT	TITLE CHAPT
1 1 2	6 4 1
2 1 2	7 6 2
3 1 7	8 3 4
4 2 3	9 5 5
5 2 4	10 1 2
PREVIOUS ↑	NEXT ↓
PLAY : ▶	FINISH : PROGRAM

To Playback the Tracks in the Programmed Order



Press the **Play/Pause** (▶||) button.

To Cancel the Programming

●●● Press either the **Program** button or **Stop** (■) button.

To Change the Program

DVD

1

Press the **Up/Down** (▲/▼) button to select the track number to be changed.

2

Press the **Enter** button to select the title or chapter to be changed.

3

Press the **Clear** button and then press the Number buttons.

✚ The cursor moves to the next number when the **Enter** button is pressed again.

✚ You can use also just the **Left/Right** (◀/▶) button.

4

Press the **Enter** button.

5

Repeat steps 1-4 above to change the program.

✚ The cursor moves to the number below.

To delete the entire Program

✚ Press the **Stop** (■) button twice during playback.

✚ Press the **Stop** (■) button once when in the Stop mode.

✚ Press the **Open/Close** (▲) button on the main unit.
The disc tray will open and then close. The program will then be deleted.

When you have entered a wrong number



Press the Clear button.

✚ When you want to delete a selection during programming, select the track (or chapter, or title) to be deleted and then press the **Clear** button.



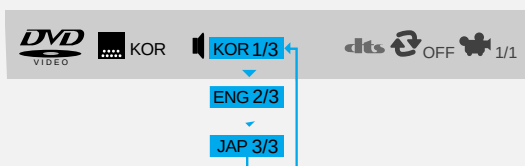
You can program or change particular tracks for VCD or CD discs in the same manner.

Selecting the Audio Language/Subtitle Language

Selecting the Audio Language

Press the Audio button.

✚ Depending on the number of languages recorded on a DVD disc, a different audio language (KOREAN, ENGLISH, JAPANESE, etc.) is selected each time the button is pressed.



Note

✚ Depending on the disc, DTS or DIGITAL PRO LOGIC can be selected.

Selecting the Subtitle Language

Press the Subtitle button.

✚ Depending on the number of languages recorded on a DVD disc, a different subtitle language (KOREAN, ENGLISH, JAPANESE, etc.) is selected each time the button is pressed.

✚ To make the subtitles disappear, select "OFF".

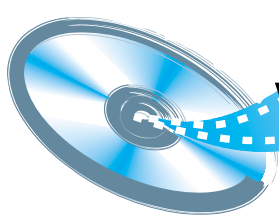


Note

✚ The word INVALID appears on the TV screen!

✚ If this message appears on the TV screen while buttons are being operated, that operation is not possible with that particular disc.

✚ Depending on the disc, the audio or subtitle language function may not work.

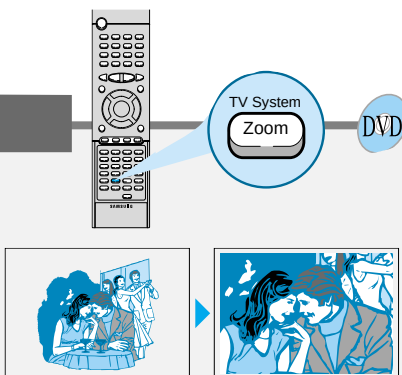


Various DVD Functions

To enlarge an image

Press the **Zoom** button.

- ✚ Images can be enlarged 2x and 4x.
- ✚ During DVD playback, press the **ZOOM** button to zoom in 2X/4X/normal, in that order.



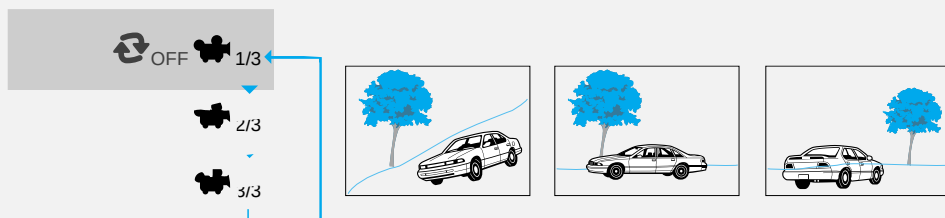
Note

- ✚ Only 2X zoom operation is possible during VCD playback.

Selecting the desired Screen Angle

Press the **Angle** button.

- ✚ This function only works with discs on which multiple angles have been recorded.
- ✚ During playback, press the **Angle** button to select the desired angle in 1/3, 2/3, 3/3, normal, in that order.



To move directly to a title, chapter, or time

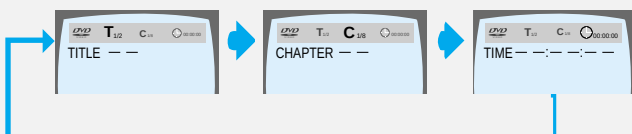
1

Press the **Go To** button.

2

Press Number(0~9) button or the **Left/Right** (◀/▶) button.

- ✚ Each time the button is pressed, it repeats as shown below.

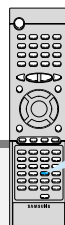


- ✚ Each The desired scene is located and then played.
- ✚ Depending on the disc, the Title function may not work.

System Setup

You can use the DVD player's Setup function to select the TV screen ratio, rating limit, or digital output mode.

To Set up the System



Setup

DVD

1

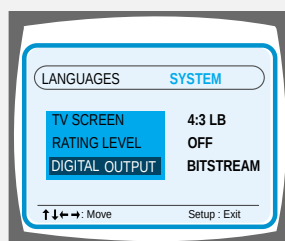
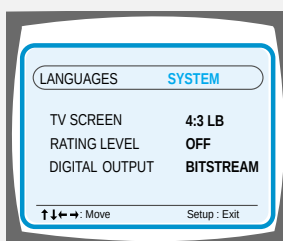
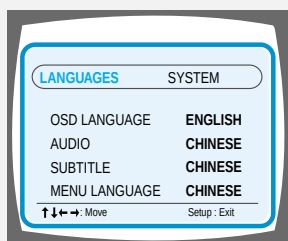
From the stop mode, press the **Setup** button.

2

Press the **Left/Right** (◀ / ▶) button to select the system.

3

Press the **Up/Down** (▲ / ▼) button to select the desired item.



4

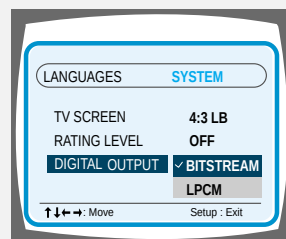
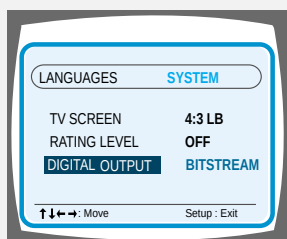
Press the **Enter** button or Right (▶) button.

5

Press the **Up/Down** (▲ / ▼) button to select the desired sub-item and then press the **Enter** button.

✎ Move to the detailed items.

✎ Then press the Left (◀) button to return to the previous step.



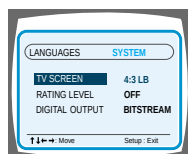
To End the System Setup

Setup

✎ Press the **Setup** button again.

TV SCREEN(TV SCREEN RATIO)

Select when you want to watch a 16:9 screen ratio DVD movie on a TV with a 4:3 ratio screen.



4:3LB

You can see the full 16:9 picture, but black bars will appear at the top and bottom of the screen.

4:3PS

You can only view the central portion of the 16:9 screen.

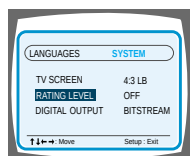
16:9

You can view in wide screen but the top and bottom of the picture will be cut off.

⚠ However if the movie is recorded in 4:3 ratio, you cannot view the full 16:9 picture with the above functions.

RATING LEVEL

The Rating Level function works in conjunction with DVDs which have been assigned a rating, to help control the type of DVD that your family watches.



1. Select **RATING LEVEL**, then press the **Enter** button.

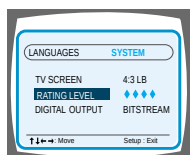
2. Use the number(0~9) buttons to input a 4-digit password.

⚠ The player's password is set to "7890" by default.

When the rating level password has been forgotten

While the player is in the stop mode, hold the Stop (■) button down on the main unit for more than 5 seconds.

⚠ "INITIAL" appears on the display and all default settings will return to Factory Preset.

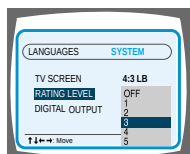


3. Use the Up/Down (▲/▼) button to select either **RATING LEVEL** or **NEW PASSWORD**, and then press the **Enter** button.

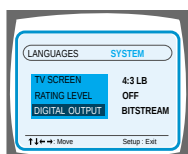
⚠ There are up to 8 rating levels on a disc.

⚠ If LEVEL 6 is selected, a disc which contains rating LEVEL 7 and above cannot be played.

⚠ If you select NEW PASSWORD, the screen changes and enables you to enter the new password.



DIGITAL OUTPUT

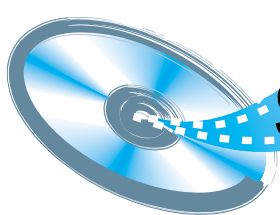


BITSTREAM

Select this if Dolby Digital 5.1 CH connections have been made.

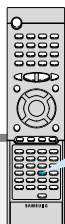
LPCM

Select this otherwise.



Setting up the Language Features

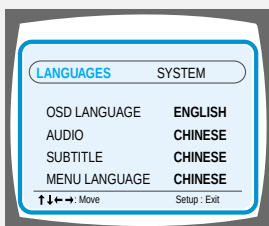
Using the DVD player's Setup function, you can customize the Menu Language, Subtitle Language, and Disc Menu Language.



To set up the language feature

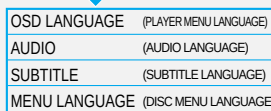
1

Press the **Setup** button from the stop mode.



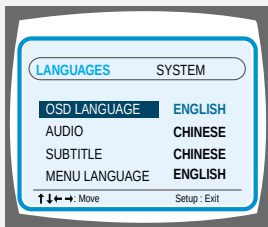
2

Press the **Up/Down** (▲/▼) button to select the desired item.



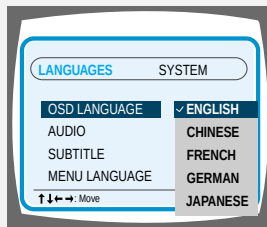
3

Press the **Enter** button or **Right** (▶) button.



4

Press the **Up/Down** (▲/▼) button to select the desired language and then press the **Enter** button.



✚ Move to the language features.

✚ Then press the **Left** (◀) button to return the previous step.

To End the Language Features Setup

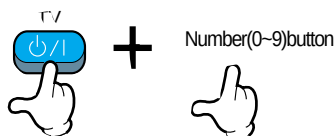
Setup



✚ Press the **Setup** button again.

Controlling a TV with the Remote

- 1 Enter the code that corresponds to your brand while holding down the TV(⏻) button on the remote control.



Code	Brand	Code	Brand
01	SAMSUNG 1	16	SHARP 3
02	SHARP 2	17	ZENITH
03	SONY	18	LG 3
04	MAGNAVOX	19	DAEWOO 8
05	SANYO 1	20	SANYO 2
06	LG 2	21	EMERSON
07	RCA	22	SHARP 3
08	LG 1	23	SAMSUNG 4
09	TOSHIBA	24	MATSUSHITA
10	HITACHI	25	NOBLEX
11	JVC	26	TELEFUNKEN
12	PANASONIC 1	27	NEWSAN
13	MITSUBISHI 2	28	LOEWE
14	SAMSUNG 2	29	RCA2
15	SAMSUNG 3		



Note Depending on the type of TV you have, some operations cannot be performed with the remote.

✚ If your TV does not switch from VIDEO mode to TV mode, press the TV POWER(⏻) button twice.

- 2 Operate by pressing the TV function.

✚ Enter other codes for the same brand if the first code does not work.

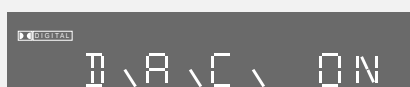
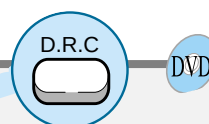
Dynamic range compression (DRC) function

This function allows for fullness of sound with Dolby Digital effect even when playing at low volumes during nighttime listening.

Press the D.R.C button.

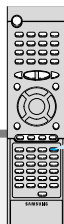
✚ The selection switches back and forth between “D.R.C. On” and “D.R.C. Off” each time the button is pressed.

✚ This function only works when in the Dolby Digital mode.



Speaker Setup

To set up Speaker Balance



Sound Edit

DVD VCD CD

1

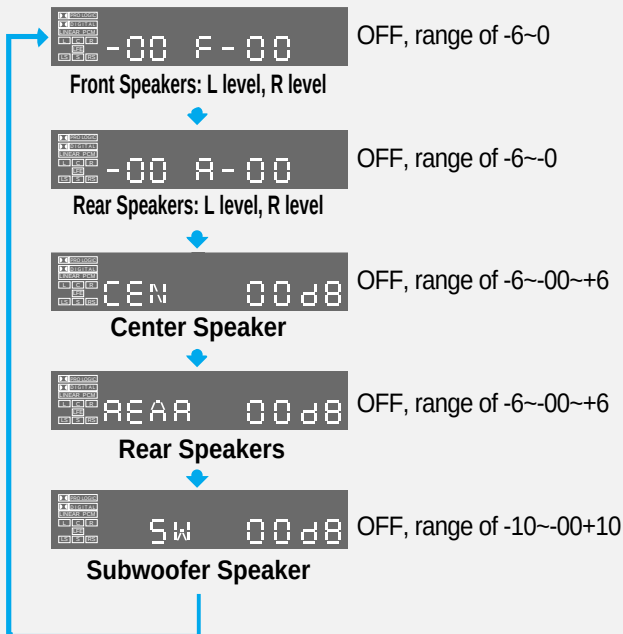
Press the **Sound Edit** button.

2

Use the **Left/Right** (◀ / ▶) button to make adjustment.

✚ Each time the button is pressed the selection switches as shown below.

Example: 5.1CH Sound Setup



Note

The display changes depending on the current audio output mode (DSP, PROLOGIC, 3-STEREO, STEREO, etc.).

Speaker Setting Methods

Press the **TEST TONE** button.

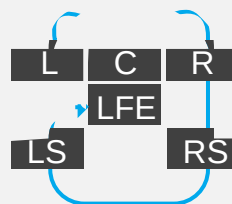
¥ Depending on the number of languages recorded on a DVD disc, a different audio language (KOREAN, ENGLISH, JAPANESE, etc.) is selected each time the button is pressed.

To End the Language Features Setup

¥ Press the **Test Tone** button again.

Test Tone

DVD VCD CD



Note

While in DSP or PRO LOGIC mode, TEST TONE may operate differently for VCDs or CDs

Selecting Dolby Pro Logic

Press the **Pro Logic** button.

Converts encoded Dolby Pro Logic 2 channel sound (example: external input received by Stereo VCR is Dolby Digital 2 channel) to 4 channel sound. This feature is unavailable in DVD mode.

1

Press the **AUX** button or a **TUNER BAND** button.

2

Press the **PRO LOGIC** button.

¥ Select from FM, AM, DIGITAL IN and ANALOG IN.

¥ You can also press the **Stop (■)** button on the front panel of the main unit.

¥ Each time the Pro Logic button is pressed

PRO LOGIC

Use only when Rear Speakers are connected. Center channel signals are output through Front Speakers (L, R).

3-STEREO

Use only when Rear Speakers are not connected. Rear channel signals are output through Front Speakers (L, R).

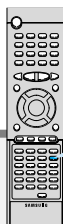
STEREO

Use only when Front Speakers (L, R) are connected.

Speaker Setup

Setting up Speaker Mode and Delay Time

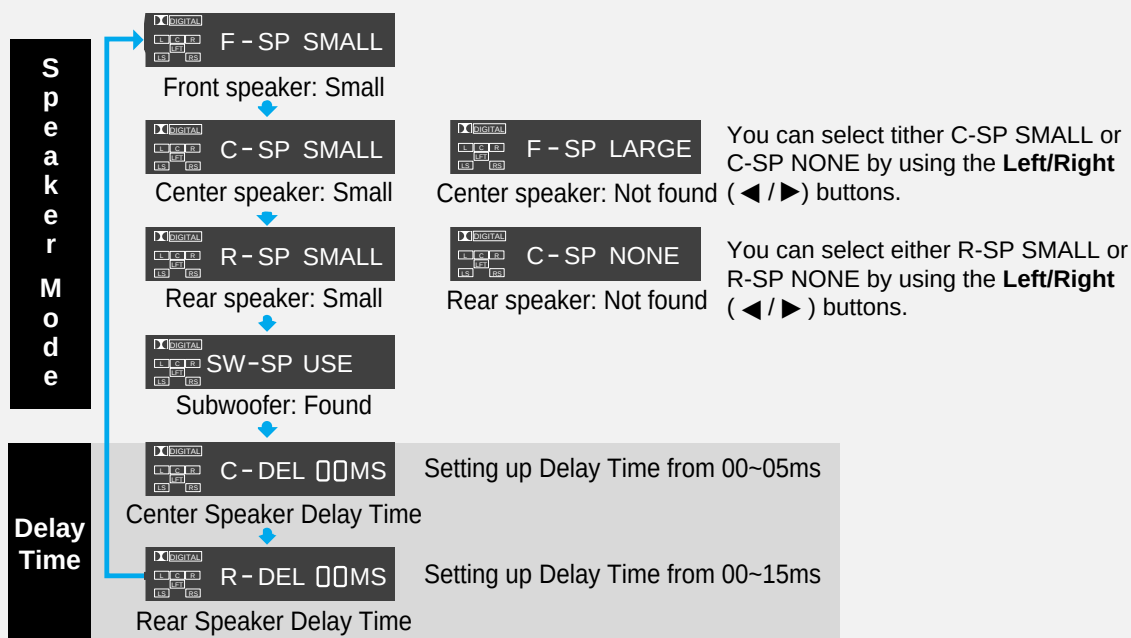
Press the **SPK Mode** button.



SPK Mode

DVD

✚ Each time the button is pressed, a different mode selection is displayed on the front panel display as shown below.



The display changes depending on the current audio output mode (DSP, PROLOGIC, 3-STEREO, STEREO, etc.).

To set the delay time

When 5.1 Channel Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same. You can set Delay Time in the Center/Rear Speaker to customize the sound to the acoustics of your room.

Setting Center Speaker

If the distance of D_c is equal to or longer than the distance of D_f in the figure, set the mode as 0ms. Otherwise, change the setting according to the table on the table.

Setting Rear Speakers

If the distance of D_f is equal to the distance of D_s in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

(A)= $D_f - D_c$

Distance of (A)	Value(ms)
50	1.3
100	2.6
400	3.9
200	5.3

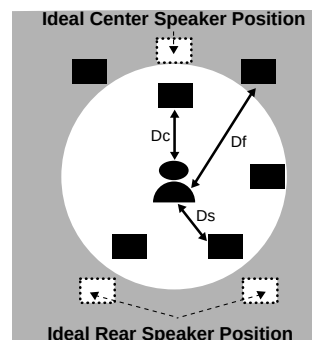
(B)= $D_f - D_s$

Distance of (B)	Value(ms)
200	5.3
400	10.6
600	15.9

D_c : Distance from center speaker to listening position

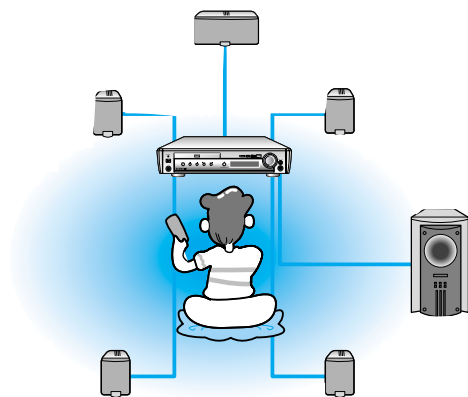
D_f : Distance from front speakers to listening position

D_s : Distance from rear speakers to listening position



Arrange all speakers within a circle as shown in the figure.

Speaker Setting Methods



Front Speakers

Set the front speakers so that their tweeters (high-range) are aligned at about ear level and at a horizontal angle of 45° to the prime listening position.

Center Speaker

Ideally the center speaker should be positioned with its top surface flush with the front speakers. However, you may place the speaker either on top or near the bottom of your TV set.

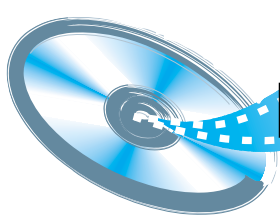
Rear Speakers

Set the rear speakers further back parallel to the walls, at 60 to 90 centimeters (2 to 3 feet) above prime listening position ear level.

If the space behind the listening position is insufficient (i.e., too close to the wall), place the rear speakers facing each other on either side.

Subwoofer Speaker

Place the subwoofer at any convenient location within the vicinity of the listening position.



Listening to the Radio

You can listen to the chosen band (FM or AM broadcast stations) by using either the automatic tuning or manual tuning operation.

Remote
Control
Unit

1

Press the **Tuner(Band)** button.

✚ The selection toggles back and forth between "FM" and "AM" each time the **Tuner(Band)** button is pressed.

2

Select a broadcast station.

Auto Station 1

When the **I◀▶▶▶I** button is pressed, a preset broadcast station is selected.

Auto Station 2

Hold in the **◀▶▶▶** button. Automatic searching begins, and then stops when a station is tuned in.

Manual Station

Press the **◀▶▶▶** button to tune to the chosen station. The frequency changes incrementally in either direction each time the corresponding button is pressed.

Main
Unit

1

Press the **Function** button to select the desired band (AM or FM).

2

Select a broadcast station.

Auto Station 1

Press the  button to select the PRESET mode. Then press the **I◀▶▶▶I** button to select a station stored in the preset

Auto Station 2

Press the **Stop (■)** button to select the MANUAL mode. Then hold in the **I◀▶▶▶I** button to make the unit begin automaticall searching for broadcast stations.

Manual Station

Press the **Stop (■)** button to select the MANUAL mode. Press the **I◀▶▶▶I** button to tune to the desired station. The frequency changes incrementally in either direction each time the corresponding button is pressed.

To Listen in Mono/Stereo

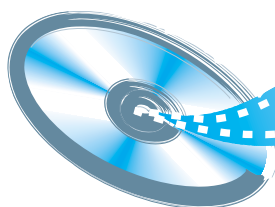
Audio

MO/ST

Press the MO/ST button. (only FM)

✚ The selection toggles back and forth between "STEREO" and "MONO" each time the **MO/ST** button is pressed.

✚ In a poor reception areas, select Mono mode for a clear, interference-free broadcast.



Presetting stations

A total of 30 broadcast stations (FM and AM combined) can be preset.

Example: Presetting FM 89.1 in the memory

1

Press the **Tuner(Band)** button and select the FM band.

2

Select the MANUAL by pressing the **Stop (■)** button on the main unit.

3

Use the **◀◀** and **▶▶** button to tune into 89.1

⚠The selection toggles back and forth between "FM" and "AM" each time the **Tuner(Band)** button is pressed.



4

Press the **Program** button.

5

Use the **◀◀** and **▶▶** button to select FM2.

6

Press the **Program** button.

⚠The preset stations operation is completed.



⚠When using this feature for the first time, be sure to store the station in the preset memory at FM1 as the unit does not come preprogrammed with default presets.

To change the Preset Stations

⚠Store the changes while repeating steps 1 to 4 above.

To store other Channels

Repeat steps 3 to 5 above.

DSP/Sleep Function

To Select a DSP

Press the DSP Mode button.



DSP Mode

CD Radio

✧ The DSP mode toggles in the following order each time the DSP button is pressed:
HALL → THEATER → PAVILION →
DANCE CLUB → LIVE HOUSE → OFF.

What is a DSP?

DSP synthetically recreates the sound field to achieve a more realistic, powerful sound.

Note

DSP mode cannot be selected when a microphone is connected.

To increase Effect level

Press the Effect button.



Effect

CD Radio

✧ The effect level can be set in steps from 1 to 4 (EFFECT1 → EFFECT2 → EFFECT3 → DEFAULT).

Each time the button is pressed the selection moves to the next effect.

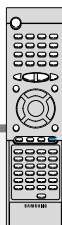
✧ The higher the number, the stronger the DSP surround effect will be.

What is a Effect?

This sets the strength of the DSP mode.

To set up Sleep

Press the Sleep button.



Sleep

✧ Each time the button is pressed the selection toggles as follows: 10 → 20 → 30 → 60 → 90 → 120 → 150 → OFF.

To Review Sleep Setting

✧ The remaining time for the selected Sleep time is displayed.

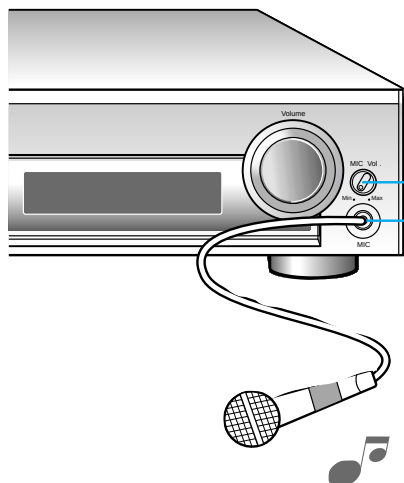
✧ Pressing the button once again changes the Sleep time from the last setting.

What is the Sleep function?

You can set the delay time so that the unit powers off automatically after a preset period of time.

Using the Microphone (OPTION)

You can have fun singing along by using a microphone (not supplied) input while VCD, CD, or radio music is playing in background.



MICROPHONE VOLUME control

Turning the control knob clockwise increases the microphone volume level. Counter-clockwise rotation decreases volume level.

MICROPHONE jack

1

Connect the microphone to the MICROPHONE jack on the main unit.

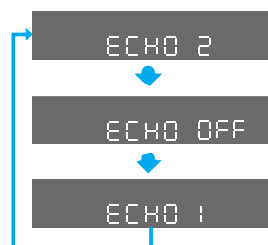
✎ "ECHO 1" is shown on the display.

ECHO 1

2

Press the Echo button on the remote control unit.

✎ The display switches each time the button is pressed as follows.



Note

✎ If you connect a microphone during DTS playback, no sound will be heard.

✎ If you connect a microphone while playing a DVD not encoded with DTS, 2 channel sound will be produced.

✎ Microphone will only work during CD, VCD or DVD playback.



HEADPHONE jack

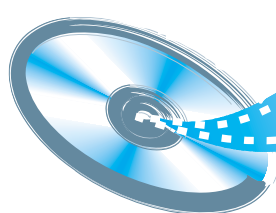
Listening on headphones

Use headphones for private listening pleasure (not supplied).

Connect the headphones to the HEADPHONES jack of the front panel.

✎ No sound is produced from the speakers.

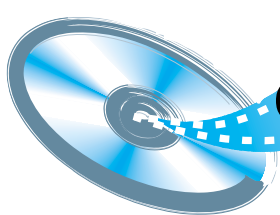
✎ To prevent hearing damage, do not raise the volume level excessively when using headphones.



Troubleshooting

Problem	Check
The disc tray does not open.	✖ Is the disc installed with the label side facing up? ✖ Is the power cord plugged securely into the power outlet? ✖ Turn off the power to the unit by pressing the Power (⏻) button and turn it back on.
Disc does not play.	✖ Check the region number of the DVD. ✖ DVD discs purchased abroad may not be playable. ✖ This player cannot play CD-ROMs, DVD-ROMs, etc. ✖ Check the rating level of the DVD.
Playback does not start immediately when the Play/Pause button is pressed.	✖ Check whether the disc has any scratch marks or is deformed?
No sound is produced.	✖ Is the power cord plugged securely into the power outlet? ✖ No sound is heard during high-speed playback, slow playback, and step motion playback modes. ✖ Are the speakers properly connected? Is the speaker Setup correctly customized? ✖ Is the disc installed with the label side facing up? ✖ Is the disc severely damaged? The disc may be dirty. Wipe off fingerprints or dirt.
Picture does not appear; sound is not produced; the disc tray opens 2-5 seconds later.	✖ Was the player moved suddenly from a cold place to a warm one? When condensation forms inside the player, remove the disc and let the player stand for 1 or 2 hours with the power on. (You can use the player after the condensation disappears.)
Sound quality is irregular.	✖ Are the speaker cables loose? ✖ Is there any dirt or debris at the end of the speaker connector?
Dolby Digital 5.1 Channel Surround Sound is not being reproduced.	✖ Does the disc being played show the "Dolby Digital 5.1CH" mark ? 5.1-channel sound is reproduced only if the disc is recorded with 5.1 channel sound. ✖ Is the DVD player connected to the proper speakers?

Problem	Check
✖The disc revolves but no picture appears. ✖Picture shows interference and quality is poor.	✖Is the TV power turned on? ✖Are the video cables properly connected? ✖Is it the player in PAUSE mode? ✖Is your TV's video format (NSTC/PAL) set correctly? Press the NTSC/PAL button once again to change the current selection. ✖Is there any dirt on the disc, or is the disc damaged? ✖It may not be possible to play some DVD discs due to poor manufacture. ✖When a dark scene changes to a bright scene during playback, the screen may flicker vertically. Some disturbance is normal.
Remote control unit does not operate.	✖Is the remote control being used within the appropriate distance and angle of operation for the unit? ✖Are there any obstacles between the remote control unit and the remote control sensor? ✖Are the batteries dead? Is it time to replace the batteries with new ones?
Audio or subtitle language does not operate.	✖The audio or subtitle language features does not operate with DVDs that do not include multiple audio or subtitle languages.
The Menu button is pressed but the Menu screen does not appear.	✖Is the remote control being used within the appropriate distance and angle of operation for the unit? ✖Are the batteries dead? ✖Does the disc have a Menu?
The screen ratio cannot be changed.	✖You can play 16:9 wide DVDs in 16:9 WIDE mode or 4:3 LETTER BOX mode or 4:3 PAN-SCAN mode; but 4:3 encoded DVDs only show in 4:3 ratio. Refer to the DVD disc jacket and then select the appropriate function.
The desired radio station cannot be tuned in.	✖Is the antenna installed properly? ✖When the antenna's input signal is weak, install an external FM antenna in an area with good reception quality.
✖The password for the rating level has been forgotten. ✖The DVD player is malfunctioning.	✖While the player is in the stop mode, hold the Stop (■) button down on the main unit for over 5 seconds."INITIAL" appears on the display and all settings will return to the Factory Preset condition. The RESET function erases all settings; do not use this function unless necessary.



Cautions on Handling and Storing Discs

Small scratches on the disc may reduce sound and picture quality or cause breaks in playback. Be especially careful not to scratch discs when handling them.

Handling and Storing Discs



When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

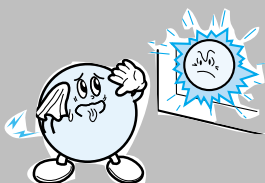
⚠ When cleaning, wipe gently from the inside to the outside of the disc.

Note

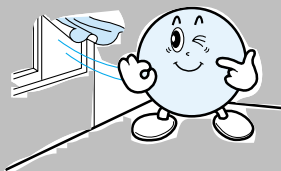
Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.

Disc Storage

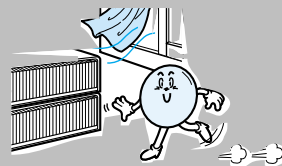
Do not keep in direct sunlight



Keep in a cool ventilated area

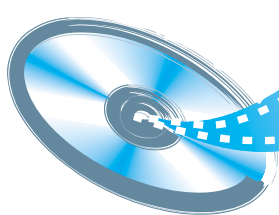


Keep in a clean Protection jacket. Store vertically.



⚠ Do not allow the discs to become contaminated with dirt.

⚠ Do not load cracked discs or discs that are scratched.



Disc Type and Protection

Usable Discs

Disc Types	Marks	Recording Types	Disc Size	Max. Playing Time
DVD		Audio + Video	12cm	Approx. 240 min. (Single-sided)
				Approx. 480 min. (Double-sided)
			8cm	Approx. 160 min. (Single-sided)
				Approx. 160 min. (Double-sided)
VIDEO-CD		Audio + Video	12cm	74 min.
			8cm	20 min.
AUDIO-CD		Audio	12cm	74 min.
			8cm	20 min.



Dolby Digital
disc



DTS Disc



Digital Audio
disc



Stereo disc



NTSC broadcast
system in USA,
Canada, Japan,
South Korea, etc..



PAL broadcast
system in U.K,
France,
Germany, etc.

Do not use the following types of disc!

✖ LD, CDG, CD-I, CD-ROM and DVD-ROM cannot be played on this player.

✖ DVD discs purchased abroad may not play on this player.

If such discs are played, a "WRONG REGION CODE" message appears on the TV screen.

Copy Protection

✖ Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.

✖ This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.



Specification

GENERAL	Power Supply	120V, 60Hz
	Power Consumption	120W
	Weight	6.5Kg
	Dimensions	W 370mm x D 300mm x H 80mm
	Operating Temperature Range	+5°C~+35°C
	Operating Humidity Range	10%~75%
FM TUNER	Receiving Frequency	87.5~108MHz
	Usable Sensitivity	10dB
	S/N Ratio	60dB
	Distortion	0.5%
	Channel Separation	28dB
AM TUNER	Receiving Frequency	522~1611KHz
	Usable Sensitivity	54dB
	S/N Ratio	40dB
	Distortion	2%
VIDEO OUTPUT	VIDEO	1.0Vp-p(75Ω load)
	Component Video	Y:1.0Vp-p(75Ω load)
		Pr:0.70Vp-p(75Ω load)
		Pb:0.70Vp-p(75Ω load)
	S-VIDEO	Luminance Signal: 1.0Vp-p(75Ω load)
		Color Signal: 0.286Vp-p(75Ω load)
AMPLIFIER	Front speaker output	40W x 2(6Ω), Distortion 10%
	Center speaker output	40W(6Ω), Distortion 10%
	Rear speaker output	40W x 2(6Ω), Distortion 10%
	Subwoofer speaker output	70W(3Ω), Distortion 10%
	Frequency range	20Hz~25KHz
	S/N Ratio	75dB
	Channel separation	50dB
	Input sensitivity	(AUX)500mV

S P E A K E R	Speaker system	5.1ch speaker system		
		Front/Center/Rear speaker		Subwoofer speaker
	Impedance	6Ω x 5		3Ω
	Frequency range	150Hz~18KHz		45Hz~250Hz
	Output sound pressure level	87dB/W/M		86dB/W/M
	Rated input	40W		70W
	Maximum input	80W		140W
	Dimensions	Front/Rear	103mm x 150mm x 120mm	250mm x 403mm x 335mm
		Center	197mm x 103mm x 120mm	
	Weights	Front/Rear	0.73Kg	6.8Kg
		Center	0.80Kg	

Note on Terminology

ANGLE	Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left, from the right, etc.). With such discs, the Angle button can be used to change the angle of view for specific scenes.
CHAPTER NUMBER	These numbers are recorded on DVD discs. A Title is subdivided into many sections, each of which is numbered, and specific parts of the video can be searched quickly using these numbers.
DVD	A high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG-2) and high-density recording technology, a DVD disc comprises two 0.6 mm thick discs bonded together.
PCM	An acronym for Pulse Code Modulation - another name for digital audio.
PBC (PLAYBACK CONTROL)	This is recorded on a video CD (version 2.0). Selected scenes or information can be chosen from the menu displayed on the TV monitor.
REGION NUMBER	Both the DVD player and DVD discs are encoded with a region number. If the region number on the DVD disc does not correspond to the region number of the DVD player, the player cannot play the disc.
SUBTITLES	Translated appearing at the bottom of the screen. A DVD disc can contain up to 32 subtitle languages.
TITLE NUMBER	These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as Title 1, Title 2, etc.
TRACK NUMBER	These numbers are assigned to the tracks which are recorded on video and audio CDs. They enable specific tracks to be located quickly.
VIDEO CD	Contains recordings of pictures and sound whose quality is roughly comparable to that of video tape. This player also supports video CDs with playback control (version 2.0).
	You can enjoy 5.1 (or 6) channels of high fidelity digital sound from various digital input sources such as laser discs, DVD, CD etc. DTS provides a realistic, clear surround sound that has not previously been available from conventional surround sound.
	5.1 (or 6) Channel Digital Surround sound reproduced from DVDs and LDs recorded as a digital signals (with  disc marking). With better sound quality, dynamic range, and directionality than the traditional Dolby surround technology, you can enjoy the dynamic realistic sound.
	A 4 channel analog sound reproduced from a program source such as a videotape or LP with the  PRO LOGIC mark. You can enjoy a more realistic, robust sound unavailable from regular stereo sources.

